Smart Hybrid Mounter

SM485P

Specifications

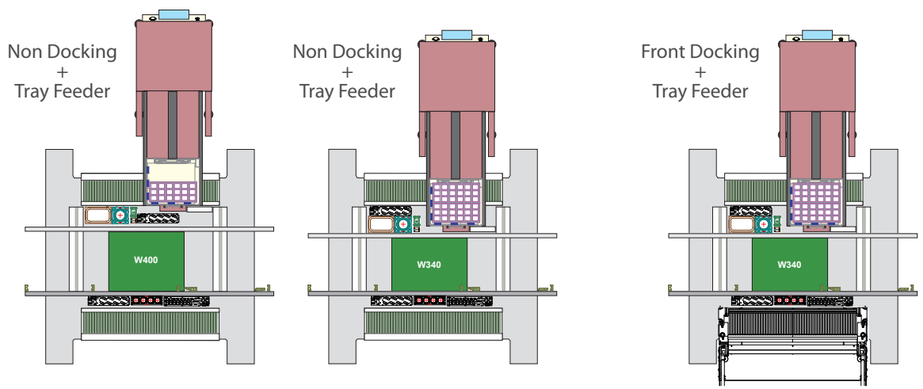
Item		Specifications
Spindle / Gantry		4 Precision spindles / 1 Gantry
Vision Type		4 Small Vision + 1 Wide Vision
Accuracy	SMD	±50μm @ Cpk≥ 1.0 (Chip) / ±30μm @ Cpk≥ 1.0 (IC)
Component Range	Small Fix Camera	0603 ~ □ 22mm/H32mm (H42 Special Order *)
	Large Fix Camera	~ □ 55mm, L150mm/H32mm (H42 Special Order *)
Force Control		0.5~50N
PCB size		460(L) x 400(W)mm (STD), 610(L) x 460(W)mm (Option)
PCB weight		Max. 2Kg
Feeder Capacity (Based on 8mm)		120ea/112ea (Docking Cart)
Utility	Power	3 Phase AC 200/208/220/240/380/415V ±10% (50/60Hz)
		Max. 3.5 KVA
	Air	50 Nl/min (Vacuum Pump)
Weight		Approx. 1,600 kg
External Dimension		1,650(L) x 1,680(D) x 1,530(H)mm

* Since its specifications require a special order, professional advice and recommendations are required.

Max. Number of Feeders Available for Installation

Description	Tape Reel Feeder		Stick Feeder			Bowl Feeder	Tray Feeder		
	Tape (8mm)	Radial (On Developing)	Multi Stick (Vibration)	Stack Stick (Vibration)	Pusher-belt Stick	Single/ 2-Staged/ 3-Staged	Multi	Side	Single
FRONT	60	7	6	8	6	2	-	-	2
REAR	60	7	6	8	6	2	1	1	2

Standard Equipment Layout



• 6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 13488, Korea
• Tel : USA. +82-70-7147-7151, Europe. +82-70-7147-6322 Fax : +82-31-8018-3721

• Please note that specifications and product information in this catalog are subject to change without notice.

Hanwha

Smart Hybrid Mounter

SM485P

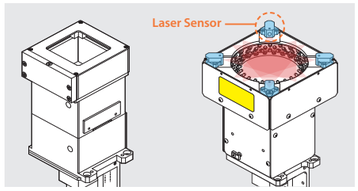
The **SM485P** mounter is a multi-functional hybrid mounter that can quickly and reliably place various insert components and odd-type components in addition to SMD components.

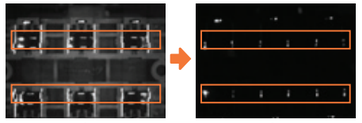
Reliable Insertion & Verification Solutions

Component Recognition / Inspection

LASER Light

Allows accurate recognition of a lead pin using 4-directional lighting.

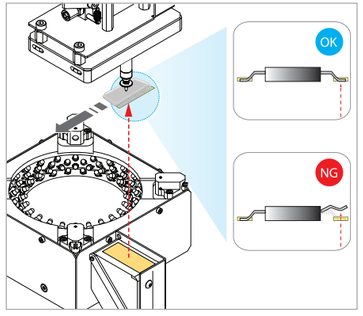




Before / After

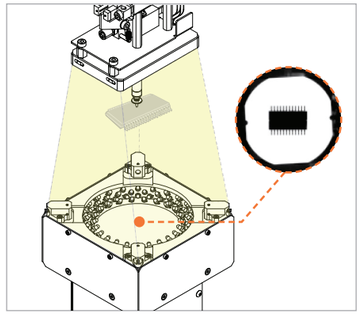
Lead Coplanarity Inspection (Option) *

Checks for a bent lead using a laser beam to detect defective component.



Back Light (Option)

Recognizes irregularly reflecting and semi-transparent components accurately.



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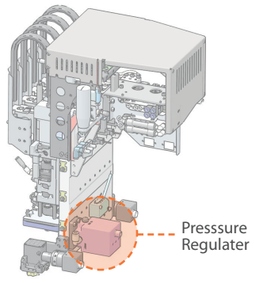
Placement Force Setup Function

Force Control

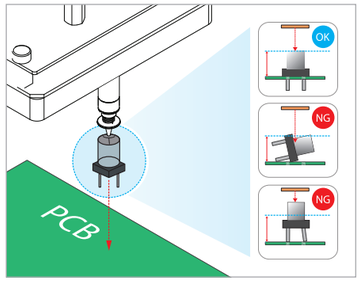
- Possible to set the placement force by component. (0.5 ~ 50N)
- Applicable to a component and process that needs to be pressed. (e.g. : Clip type lead pin, simple assembly, etc.)



Placement Error Prevention

Height Sensor (Option)

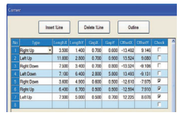
After placing a component, measures the height of the placed component to detect a placement error.



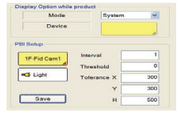
PBI(Post Bonding Inspection) (Option)

After placing a shield can, inspects its placement status to detect a placement error using the machine vision system without a separate inspection device.

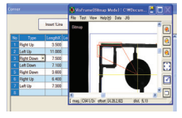
Auto Teaching



PBI Area Check



Placement Tolerance Setup



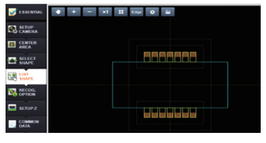
Indication by Highlighting

Convenience & Easy Operation

Easy Component Registration

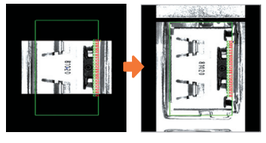
New Part Editor

A Drag & Drop component registration system, allowing registration of component information through automatic recognition and rotation by simply clicking the mouse.



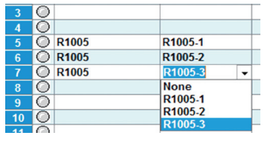
Panorama View Function

Since large-sized components are not viewed in one screen, it is hard to adjust their pickup or placement positions. In order to remove such inconvenience, the panorama view function is added to allow large components to be viewed within the FOV of a camera.



Multi-Vendor Component Management Function

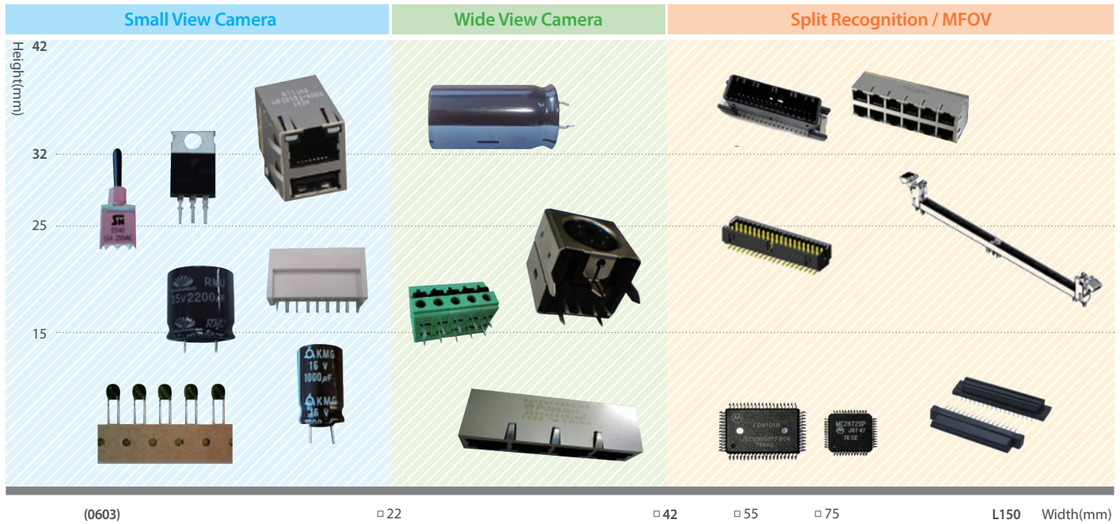
When the same components are supplied from different component supply devices, this function allows components to be used without changing a PCB file and downloading a new PCB file.



Progressive Production Function

Divides a PCB file into two. Once the placement for the first PCB file is completed, placement for the second PCB file is performed after replacing the docking cart.

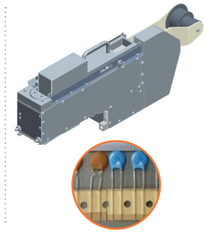
Component Coverage & Various Feeder Solution



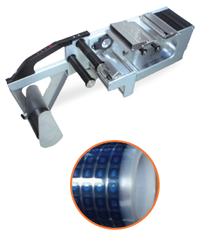
Tape Reel Feeder

Tape Feeder (SMD, Odd-type Components)

Radial/Axial Feeder * (Auto-Inserted Components)



Label Feeder ** (Sticker)



Tray Feeder

Multi-staged Tray Feeder

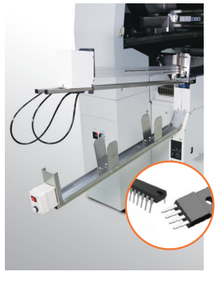
Single Tray Feeder

* Since this is under development, it will be available for a radial feeder in September 2017 and an axial feeder in February 2018.
** Since its specifications require a special order, professional advice and recommendations are required.

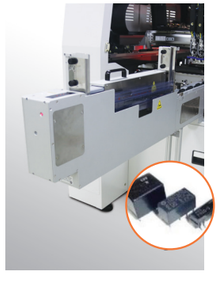
Stick Feeder

Multi Stick Feeder (Vibration)

Stack Stick Feeder (Vibration)

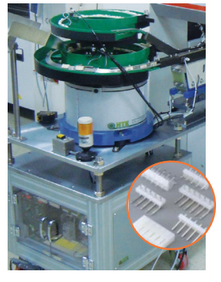


Stack Stick Feeder (None Vibration)



Bulk Feeder (Bowl Feeder)

2-Staged Bowl Feeder



3-Staged Bowl Feeder